

Grand Canyon

National Park Service
U.S. Department of the Interior
Grand Canyon National Park



2002 PARK PROFILE

AUTHORIZATION

Grand Canyon was first set aside as a forest reserve in 1893 by President Benjamin Harrison (Presidential Proclamation #45). President Theodore Roosevelt established Grand Canyon National Monument by Presidential Proclamation #794 in 1908. Park administration was under the United States Forest Service until the establishment of Grand Canyon National Park on February 26, 1919 (40 Stat 1175). The Grand Canyon National Park Enlargement Act, passed on January 3, 1975 (88 Stat 2089) enlarged the park.

PARK RESOURCES

PARK SIZE:	1,217,403.32 acres/487,350 hectares 1,904 sq. miles/4950 sq. kilometers
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"THE GRAND CANYON"

Length	277 river miles/443 km
Width	
Minimum (Marble Canyon)	600 feet/180 meters/18,000 cm
Average Rim to Rim	10 miles/16 km
Maximum Rim to Rim	18 miles/28.81 km
Average Depth	1 mile/1.6 km
Rim Elevations	
South Rim	7,000 feet/2100 m/210,000 cm
North Rim	8,000 feet/2400 m/240,000 cm
Lake Mead Boundary	1,200 feet/360 m/36,000 cm
Volume	
Cubic yards	5.45 trillion
Cubic meters	4.17 trillion

"THE COLORADO RIVER" (Within Grand Canyon National Park)

Length	277 miles/443 km
Average Width	300 feet/90 m/9,000 cm
Minimum Width	76 feet/23 m/2280cm
Average Depth	40 feet/12 m/1200 cm
Greatest Depth	85 feet/25.5 m/12550 cm
Average Gradient	7 feet/mile/2 m/1.6 km
Elevation at Phantom Ranch	2,400 feet/720 m/72,000 cm

The Colorado River is 1,450- miles/2333 km long from its source in the Rocky Mountains of Colorado to the Gulf of California.

GEOLOGY:

The carving of the Grand Canyon by the Colorado River has taken place over the last six million years, exposing rocks at the bottom of the canyon that are close to two billion years old.

PLANT AND ANIMAL LIFE:

(Cataloged)

Birds	290 species
Mammals	96 species
Fish	26 species
Reptiles and Amphibians	60 species
Plants (flowering or vascular)	1,561 species (approx.)
Plants (non- vascular)	
Monera (blue green algae)	99 species
Protista (includes algae,	
Dinoflagellates, Slime molds, etc.)	380 species
Fungi (includes mildews, Lichens, morels,	
Needlecasts, mushrooms, etc.)	375 species
Mosses	69 species
Endemic Species	12 species
Exotic Species (includes some horticultural species)	157 species
Vegetation Associations	129 species
Vegetation Formations (includes forest and woodland,	
scrubland, grassland, desertland, wetland, and strand)	6 species
Non- Native (Exotic)	160 species

ENDANGERED/THREATENED SPECIES:

Animals - California condor, Colorado pikeminnow, humpback chub, Southwestern willow flycatcher, and razorback sucker, Mexican Spotted Owl, Kanab ambersnail, desert tortoise, Little Colorado River Spinedace and bald eagle. In addition, there are over 35 species of former Category 2 and Species of Special Concern.

Plants - The sentry milk vetch (*Astragalus cremnophylax* var. *cremnophylax*) is the only endangered plant in the park. There are no listed threatened plant species. Seven species of special concern (formerly category 2 species) are known.

ARCHEOLOGICAL RESOURCES:

The oldest human artifacts found are nearly 10,000 years old. The next oldest artifacts are between 3,000 and 4,000 years old. The park has recorded over 3,940 archeological resources with an intensive survey of less than 3% of the park area.

HISTORIC STRUCTURES:

National Historic Landmarks	
Individual Buildings	4
Districts (120 buildings)	2

The Grand Canyon Village was listed as a National Landmark District consisting of 257 contributing properties.

National Register of Historic Places	
Individual Structures	3
Districts (336 structures)	6

Determinations of eligibility have been received for an additional 44 buildings and structures, and nominations are pending for inclusion on the National Register of Historic Trail Systems.

Determination of eligibility for inclusion on the National Register of Historic Places has been received for 323 archaeological sites along the Colorado River.

List of Classified Structures (LCS): 883 listings LCS is inclusive of the National Historic Landmark and National Register programs currently being reviewed.

CLIMATE:

South Rim	
Mean High Temperature	85°F/29°C
Mean Low Temperature	18°F/- 7°C
Average Annual Precipitation	26 in./ .66 m/66 cm
North Rim	
Mean High Temperature	77°F/25°C
Mean Low Temperature	15°F/- 9°C
Average Annual Precipitation	40 in./1 m/100 cm
Phantom Ranch	
Mean High Temperature	105°F/40°C
Mean Low Temperature	38°F/3°C
Average Annual Precipitation	8 in./ .2 m/20 cm

VISITOR SERVICES

VISITATION - 2001

2001 Visitation	4,439,796
Percentage decrease from 2000 of	7.8%

2001 Shuttle System "Rides"	4,771,432
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Year- round shuttle service began March 10, 2000. Implemented in 1974, the shuttle system has provided over 61,054,815 rides since its inception.

2001 Backcountry User Nights	89,448
Corridor	48,873
Other Backcountry Trails	40,575

2001 approximate number of permits issued	11,756
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Colorado River User Days as outlined in Colorado River Management Plan (1989)

Commercial	115,500
Noncommercial	54,450

2001 Mule Trip Riders

Fred Harvey (South Rim)	
Plateau Point	5,008
Phantom Ranch 1 night	3,907
Phantom Ranch 2 nights	274
Trail Rides (North Rim) – 2001 Figures	
1 Hour Ride	2,622
3 Hour Ride	4,359
All Day Ride	664

2001 Train Passengers	168,712
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Commercial Air Tour Passengers (Industry figures) 642,000*

Commercial Air Tour Flights (Industry figures) 90,000*

* Note: Commercial air tour operations reported by the industry to the FAA between May 1, 1997 and April 30, 1998.

Approximately forty percent of the park's visitors are foreign, from over 110 countries.

DEVELOPMENT:

Buildings

National Park Service	628
Concessionaire	524
Total	1,152

Trails

Maintained	33 miles/52.8 km
Total	500 miles/800 km

Roads 291 miles/392 km

Sewage Treatment Facilities 4

Inner Transaction Pipeline 23 miles/36.8 km
Water from Roaring Springs to the North and South Rims.

Lodging Units

South Rim	917
North Rim	203
Phantom Ranch	15

Recreational Vehicle Sites 70

Rim Campsites

Mather	308 family, 7 group
Desert View	50 family
North Rim	83 family, 4 group

VISITOR FACILITIES:

Visitor center/museums, backcountry office, historic structures, scenic overlooks, rim trails, backcountry trail, overnight lodging, trailer sites, tent campsites, restaurants, cocktail lounges, general stores, gift shops, kennel, post office, bank, telegraph office, service stations, dentist, medical clinic/pharmacy, showers and laundry.

VISITOR SERVICES:

Educational/environmental exhibits, ranger programs and hikes, self-guiding hikes, publication sales, backpacking, hiking, camping, picnicking, mule riding, guided bus tours, air tours (originating outside the park), shuttle bus service, river trips, bicycling, auto touring, fishing, church services, law enforcement, medical services, ambulance, taxi, and dry cleaning.

CONCESSIONERS:

In 2000, the last year for which complete figures are available, 22 concessioners grossed approximately \$120 million and paid franchise and other fees of approximately \$6.2 million.

LAW ENFORCEMENT ACTIVITIES - 2001

Part I Offenses Investigated	165
Part II Offenses Reported	2,840
Law Enforcement Jurisdiction	Concurrent

EMERGENCY MEDICAL SERVICES - 2001:

Emergency Medical Service Response	844
Deaths	15

SEARCH AND RESCUE INCIDENTS - 2001: 420

PARK ADMINISTRATION

FY 2001 Authorized Funding

ONPS Base Operating Appropriation	\$17,969,900
(ONPS, Operation of the National Park System)	
SEPAS Project Funding	\$705,100
(SEPAS, Special Emphasis Program Allocation System)	
Equipment Replacement	\$280,100
Firepro Base	\$1,000,778

80% Recreation Fee Demonstration Revenue Returned \$71,164,600

(FY- 97 \$5,878,100; FY- 98 \$17,574,100;

FY- 99 \$19,080,900; FY- 00 \$14,037,400; FY- 01 \$14,594,100)

20% Recreation Fee Demonstration Revenue Returned \$431,685

Federal Lands Highway Program \$167,500

Income

Utilities Reimbursable	\$4,119,400
Quarters	\$1,342,700
Concession Franchise Fees - 80% Portion	\$5,749,700
Donations (monetary)	\$175,225
Other (reimbursable, refundable, etc.)	\$2,090,100

NATIONAL PARK SERVICE STAFFING - FISCAL YEAR 2001

FTE (Full Time Equivalency) Information and Distribution:

Superintendent's Office	13
Administration	36
Science Center	48
Concessions	8
North Rim	28
Maintenance	108
Interpretation	40
Protection	99
Fire	21

Total FY 2001 FTE Distributed Parkwide 401

PARK NEIGHBORS & COOPERATORS

NEIGHBORS

North

Arizona Strip - Bureau of Land Management
North Kaibab Ranger District - Kaibab National Forest
Pipe Springs National Monument, NPS
Coconino County
Mohave County
Washington County
Garfield County
Grand Satircase- Escalante National Monument, BLM
Vermilion Cliffs National Monument, BLM
All communities from Marble Canyon to Saint George Utah

East

Glen Canyon National Recreation Area, NPS
Navajo Nation

South

Tusayan Ranger District - Kaibab National Forest

West

Lake Mead National Recreation Area
Havasupai Tribe
Hualapai Tribe
Grand Canyon- Parashant National Monument, BLM

OTHER TRIBES WITH INTERESTS IN THE GRAND CANYON

Kaibab Band of Paiute Indians
San Juan Southern Utah Paiute
Hopi Tribe
Pueblo of Zuni

CONGRESSIONAL REPRESENTATIVES

Senator John McCain
Senator Jon Kyl
Third District Representative Bob Stump

SOUTH RIM/NORTH RIM RESIDENT STATISTICS

Based on Census Conducted in 2000

Grand Canyon Village	1,460
Tusayan (South of Grand Canyon Vlg.)	562
North Rim (open mid- May to mid- October)	325 (approx.)

PROGRAM CONTACTS:

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